

CLAIMS

1. A railing comprising: upright laterally spaced upright posts, a top rail extended between and connected to said posts, a bottom rail located below the top rail and extended between and connected to said posts, a plurality of laterally spaced upright spindles extend between said top and bottom rails, first ball knobs, first fasteners attaching the first ball knobs to the top rail, second ball knobs, second fasteners attaching the second ball knobs to the bottom rail in general vertical alignment with the first ball knobs, said spindles having opposite ends with inside walls located in telescopic relation with the first and second ball knobs thereby anchoring the spindles on the rails.

2. The railing of Claim 1 including: a first spacer located between the first ball knobs and the first rail, said first fasteners retaining the first spacer in engagement with the first rail and connecting the first ball knobs to the first rail, and a second spacer located between the second ball knobs and the second rail, said second fasteners retaining the second spacers in engagement with the second rail and connecting the second ball knobs to the second rail.

3. The railing of Claim 2 wherein: the first spacer is a first plate located in engagement with the top rail between said posts, and said second spacer is a second plate located in engagement with the bottom rail between said posts.

4. The railing of Claim 3 wherein the first and second plates have laterally spaced holes for the first and second fasteners thereby laterally spacing the first ball knobs and second ball knobs and spindles.

5. The railing of Claim 2 wherein: each of the first and second spacers are generally circular disks.

6. The railing of Claim 1 wherein: said spindles are linear tubes having open opposite ends telescoped in tight fit engagement around the first and second ball knobs.

7. The railing of Claim 6 wherein: said tubes have an inside wall, said inside wall having inwardly directed projections engageable with the first and second ball knobs to inhibit rotation of the spindles relative to the first and second knobs.

8. The railing of Claim 1 wherein: each of said first and second ball knobs have a spherical body having an annular convex side wall located in a tight frictional contact with an inside wall of the spindle.

9. The railing of Claim 8 wherein: said convex side wall includes a plurality of spaced circumferential outwardly extended continuous ribs located in bias contact with said inside wall of the spindle.

10. The railing of Claim 1 wherein: each of said first and second ball knobs have outwardly extended ribs located in tight friction contact with an inside wall of the spindle.

11. The railing of Claim 1 wherein: said spindles are linear tubes having open opposite ends and an inside wall, said inside wall having inwardly directed projections, and first and second knobs having circumferential outwardly directed ribs, said projections being engageable with ribs to inhibit rotations of the spindles relative to the first and second knobs.

12. A railing comprising: a top rail, a bottom rail located below the top rail, a plurality of laterally spaced upright spindles extend between said top and bottom rails, first ball knobs, first fasteners attaching the first ball knobs to the top rail, second ball knobs, second fasteners attaching the second ball knobs to the bottom rail in general vertical alignment with the first ball knobs, said spindles having opposite ends with inside walls located in telescopic relation with the first and second ball knobs thereby anchoring the spindles on the rails.

13. The railing of Claim 12 including: a first spacer located between the first ball knobs and the first rail, said first fasteners retaining the first spacer in engagement with the first rail and connecting the first ball knobs to the first rail, and a second spacer located between the second ball knobs and the second rail, said second fasteners retaining the second spacers in engagement with the second rail and connecting the second ball knob to the second rail.

14. The railing of Claim 13 wherein: the first spacer is a first plate located in engagement with the top rail between said posts, and said second spacer is a second plate located in engagement with the bottom rail between said posts.

15. The railing of Claim 14 wherein: the first and second plates have laterally spaced holes for the first and second fasteners thereby laterally spacing the first ball knobs and second ball knobs and spindle.

16. The railing of Claim 14 wherein: each of the first and second pacers are generally circular disks.

17. The railing of Claim 12 wherein: said spindles are linear tubes having open opposite ends telescoped in tight fit engagement around the first and second ball knobs.

18. The railing of Claim 17 wherein: said tubes have an inside wall, said inside wall having inwardly directed projections engageable with the first and second ball knobs to inhibit rotation of the spindles relative to the first and second knobs.

19. The railing of Claim 12 wherein: each of said first and second ball knobs have a spherical body having an annular convex side wall located in a tight frictional contact with an inside wall of the spindle.

20. The railing of Claim 19 wherein: said convex side wall includes a plurality of spaced circumferential outwardly extended continuous ribs located in bias contact with said inside wall of the spindle.

21. The railing of Claim 12 wherein: each of said first and second ball knobs have outwardly extended ribs located in tight friction contact with an inside wall of the spindle.

22. The railing of Claim 12 wherein: said spindle are linear tubes having open opposite ends and an inside wall, said inside wall having inwardly directed projections, said first and second knobs having circumferential outwardly directed ribs, said projections being engageable with ribs to inhibit rotation of the spindles relative to the first and second knobs.

23. In combination: a tube having an open and inside cylindrical wall, and a ball knob adapted to be secured to a support, said open end of the tube being telescoped around in tight fit relationships with the ball knob.

24. The combination of Claim 23 wherein: the ball knob includes a spherical body having a top surface, a bottom surface, and an annular convex curved side wall located in engagement with the inside cylindrical wall of the tubes and a hole in the body extended between said top and bottom surfaces for accommodating a fastener to secure the knob to a support.

25. The combination of Claim 24 wherein: the body is a one-piece plastic member.

26. The combination of Claim 24 wherein: the top surface is a flat circular surface, and the bottom surface of the body is a flat circular surface.

27. The combination of Claim 24 including: at least one outwardly directed annular rib on the convex curved side wall of the body.

28. The combination of Claim 23 wherein: the body is a truncated spherical member.

29. The combination of Claim 23 wherein: said ball knob has an annular convex side wall, a top surface, and a plurality of spaced circumferential outwardly extended continuous ribs on the convex curved side wall of the ball knob.

30. The combination of Claim 29 wherein: said annular convex curved side wall has an outwardly curved annular shape extended downwardly from the top surface of the ball knob.

31. A ball knob for anchoring a tube to a support comprising: a spherical body having a top surface, a bottom surface, and an annular convex curved side wall, and a hole in the body extended between said top and bottom surfaces for accommodating a fastener to secure the knob to a support.

32. The ball knob of Claim 31 wherein: the body is a one-piece plastic member.

33. The ball knob of Claim 31 wherein: the top surface is a flat circular surface.

34. The ball knob of Claim 31 wherein: the bottom surface of the body is a flat circular surface.

35. The ball knob of Claim 31 wherein: the body is a truncated spherical member.

36. The ball knob of Claim 31 including: at least one outwardly directed annular rib on the convex curved side wall of the body.

37. The ball knob of Claim 31 including: a plurality of spaced circumferential outwardly extended continuous ribs on the convex curved side wall of the body.

38. The ball knob of Claim 31 wherein: said annular convex curved side wall has an outwardly curved annular shape extended downwardly from the top surface of the body.

39. The ball knob of Claim 31 including: a plurality of spaced circumferential outwardly extended continuous ribs on the convex curved side wall of the body and said side

wall having an outwardly curved annular shape between said top surface of the body and said ribs.